NAME
ra_rgbe - convert between different RADIANCE picture types

SYNOPSIS
ra_rgbe [−**r**][−**e +/-stops**][−**f**][−**n frameno**] [**input** [**outspec**]]

DESCRIPTION
Ra_rgbe converts between RADIANCE run-length encoded and flat formats, and separates concatanated animation frames produced by *rpict(1)*. The −*e* option specifies an exposure compensation in f-stops (powers of two). Only integer stops are allowed, for efficiency. By default, *ra_rgbe* produces a flat RADIANCE picture file from any type of RADIANCE input picture. The −*r* option causes *ra_rgbe* to produce a run-length encoded file instead.

If the input file consists of multiple animation frames as produced by *rpict* with the −*S* option, *ra_rgbe* will read each frame and write it to the output file created by calling *printf(3)* with the output specification and frame number as arguments. If the output specification begins with an exclamation mark ('!'), then this interpreted as a command spec., which is also run through *printf* with the frame number to get the final command. This command must accept a Radiance picture on its standard input, and may write results either to a file or to the standard output. The −*n* option may be used to select a specific frame for output, and other frames in the input will be skipped. Normally, all frames will be read and written.

Ra_rgbe will report an error and exit if the target output file already exists, unless the −*f* option is given. If the output file is missing, the standard output is used. If the input file is missing or set to '-', the standard input is used.

NOTES
The file format for RADIANCE pictures was changed between release 1.4 and release 2.0. The older format can still be read by all the programs, but only the newer format is produced. This newer format cannot be read by RADIANCE software prior to release 2.0.

Ra_rgbe provides some downward compatibility by producing files that can be read by older RADIANCE software. The resultant files are also easier to manipulate with programs designed to read raw raster data.

The other use for *ra_rgbe* is as a quicker way to adjust the exposure of a RADIANCE picture than *pfilt(1)*, since *ra_rgbe* only allows integer f-stop changes. In this mode, *ra_rgbe* should be used with the −*r* option.

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SEE ALSO
pfilt(1), printf(1), ra_xyze(1), rpict(1)